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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/751,478	01/06/2004	Minoru Matsuzawa	031362	3528
23850 7	590 03/07/2006		EXAM	INER
ARMSTRON	IG, KRATZ, QUINTO	ABDELWAHED, ALI F		
1725 K STREI	ET, NW			
SUITE 1000			ART UNIT	PAPER NUMBER
WASHINGTO	ON, DC 20006		3722	

DATE MAILED: 03/07/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

VF.		
	Application No.	Applicant(s)
	10/751,478	MATSUZAWA ET AL.
Office Action Summary	Examiner	Art Unit
	Ali Abdelwahed	3722
The MAILING DATE of this communication a Period for Reply	appears on the cover sheet w	ith the correspondence address
A SHORTENED STATUTORY PERIOD FOR REF	PLY IS SET TO EXPIRE 3 M	IONTH(S) OR THIRTY (30) DAYS
WHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory peri - Failure to reply within the set or extended period for reply will, by sta Any reply received by the Office later than three months after the may earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNIC 1.136(a). In no event, however, may a district will apply and will expire SIX (6) MON tute, cause the application to become AB	CATION. reply be timely filed ITHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).
Status		
1) Responsive to communication(s) filed on	·	
	his action is non-final.	
3) Since this application is in condition for allow	wance except for formal matt	ters, prosecution as to the merits is
closed in accordance with the practice unde	er <i>Ex parte Quayle</i> , 1935 C.D). 11, 453 O.G. 213.
Disposition of Claims		
4)⊠ Claim(s) <u>1-7</u> is/are pending in the applicatio	n.	
4a) Of the above claim(s) is/are withd		
5) Claim(s) is/are allowed.		
6)⊠ Claim(s) <u>1-7</u> is/are rejected.	•	
7) Claim(s) is/are objected to.		
8) Claim(s) are subject to restriction and	d/or election requirement.	
Application Papers		
9) The specification is objected to by the Exam	iner.	
10) The drawing(s) filed on is/are: a) a	accepted or b) objected to	by the Examiner.
Applicant may not request that any objection to t	he drawing(s) be held in abeyar	nce. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the corr	•	• • • • • • • • • • • • • • • • • • • •
11)☐ The oath or declaration is objected to by the	Examiner. Note the attached	d Office Action or form PTO-152.
Priority under 35 U.S.C. § 119		
12)⊠ Acknowledgment is made of a claim for forei a)⊠ All b)□ Some * c)□ None of:	ign priority under 35 U.S.C. §	§ 119(a)-(d) or (f).
1.⊠ Certified copies of the priority docume	ents have been received.	
2. Certified copies of the priority docume		application No
3. Copies of the certified copies of the p	riority documents have been	received in this National Stage
application from the International Bure	, , , , , , , , , , , , , , , , , , , ,	
* See the attached detailed Office action for a I	ist of the certified copies not	received.
Attachment(s)		
1) Notice of References Cited (PTO-892)		Summary (PTO-413)
 Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/ 	_	s)/Mail Date nformal Patent Application (PTO-152)
Paper No(s)/Mail Date 6/7/04.	6) Other:	—·

U.S. Patent and Trademark Office PTOL-326 (Rev. 7-05) Application/Control Number: 10/751,478

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DETAILED ACTION

Claim Objections

Claim 1 is objected to because of the following informalities:

It is suggested that in:

Claim 1, line 2, delete "check" and insert -chuck--.

Appropriate correction is required.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1 and 2 are rejected under 35 U.S.C. 102(b) as being anticipated by U.S. Patent No. 5,717,482 to Akutsu et al.

Akutsu et al. discloses a substrate supporting apparatus (1) comprising a rotatable chuck (2) which is provided at its central portion with a hollow (see figs.1-3) and which supports a substrate (3), and a cylindrical nozzle member (10) having a nozzle hole (11) and capable of vertically moving in the hollow (see figs.1, 2). The nozzle hole is formed in a central portion of the nozzle member (see figs.1-3), and means (13, 14) for upwardly moving the nozzle member (see figs.1, 2, 5).

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Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claim 3 is rejected under 35 U.S.C. 103(a) as being unpatentable over Akutsu et al. in view of U.S. Patent No. 5,896,877 to Pirker.

Akutsu et al. discloses the claimed invention except for a plurality of pawls provided on a surface of the chuck opposed to the substrate, each of the pawls being projected substantially in a perpendicular direction with respect to the surface, each of the pawls can move into a state in which the pawls abut against an outer periphery of the substrate and support the substrate, and into a state in which the pawls are separated from the outer periphery of the substrate. However, Pirker teaches a substrate supporting apparatus (1) comprising a plurality of pawls (7) provided on a surface of the chuck opposed to the substrate (see fig.1), each of the pawls being projected substantially in a perpendicular direction with respect to the surface (see fig.1), each of the pawls can move into a state in which the pawls abut against an outer periphery of the substrate and support the substrate (see fig.1), and into a state in which the pawls are separated from the outer periphery of the substrate (see column 2, lines 3-5). Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the apparatus of Akutsu et al., in view of Pirker. such that it would provide the apparatus of Akutsu et al. with the concept of the

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aforementioned limitations for the purpose of enhancing the support of the substrate on the chuck.

Claims 4 and 5 are rejected under 35 U.S.C. 103(a) as being unpatentable over Akutsu et al. in view of U.S. Patent No. 6,095,582 to Siniaguine et al.

Akutsu et al. discloses the claimed invention except for the substrate is held over an upper surface of the chuck in a non-contact state by discharging gas from the nozzle hole. However, Siniaguine et al. teaches a substrate supporting apparatus (110) comprising a substrate (120) being held over an upper surface of the chuck (130) in a non-contact state by discharging gas from the nozzle hole 200 (see fig. 2, and column 1, lines 26-30 and 61-67). Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the apparatus of Akutsu et al., in view of Siniaguine et al., such that it would provide the apparatus of Akutsu et al. with the concept of the aforementioned limitation for the purpose of providing a more efficient support of the substrate on the chuck.

Claims 6 and 7 are rejected under 35 U.S.C. 103(a) as being unpatentable over Akutsu et al. in view of Siniaguine et al. as applied to claim 4 above, and further in view of U.S. Patent Application Publication No. 2001/0052392 A1 to Nakamura et al.

Akutsu et al., as modified, discloses the claimed invention except for having a fork with a pair of finger portions for holding the substrate. However, Nakamura et al. teaches a substrate supporting apparatus comprising a fork (44) with a pair of finger

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portions for holding the substrate (see fig.13). Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to further modify the apparatus of Akutsu et al., as per the teachings of Nakamura et al., such that it would provide the apparatus of Akutsu et al. with the concept of the aforementioned limitation for the purpose of providing a more efficient device for holding the substrate.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ali Abdelwahed whose telephone number is (571) 272-4417. The examiner can normally be reached Monday through Friday from 10:00 A.M. to 6:30 P.M.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Boyer Ashley can be reached on (571) 272-4502.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the examiner or the examiner's supervisor.

AA 02/27/2006

BOYER D. ASHLEY
SUPERVISORY PATENT EXAMINER